

Title (en)

Architecture for dual source electric power generating system

Title (de)

Architektur für Doppelquellenstromerzeugungssystem

Title (fr)

Architecture pour système de génération de puissance électrique à double source

Publication

**EP 2341608 B1 20181121 (EN)**

Application

**EP 10252046 A 20101203**

Priority

US 63052209 A 20091203

Abstract (en)

[origin: EP2341608A1] A dual source electric power generating system (EPGS) (60, 108, 130, 170) provides both a regulated AC output and a regulated DC output. The EPGS includes a rotating portion (62, 132, 172) and a stationary portion (64, 110, 134, 174). The stationary portion includes a plurality of windings (permanent magnet generator (PMG) armature windings (78, 148, 196), an exciter field winding (84, 158, 204), and high-voltage main generator armature windings (86, 112, 114, 160, 206)), a voltage regulator (82, 152, 202), a rectifier (90, 116, 162, 208), an inverter (96, 164, 212), a point of regulation (POR) sensor (94, 170, 210). The high-voltage main generator armature windings generate a high-voltage AC that is converted to a regulated, high-voltage AC by the rectifier and the inverter. The stationary portion is further characterized by circuitry (92, 122, 152, 194) for producing the regulated DC output from AC voltage produced by a winding (88, 118, 120, 148, 196) other than the high-voltage main generator armature windings.

IPC 8 full level

**H02K 19/28** (2006.01); **H02K 19/34** (2006.01); **H02P 9/30** (2006.01)

CPC (source: EP US)

**H02K 19/34** (2013.01 - EP US); **H02P 9/302** (2013.01 - EP US); **H02P 9/307** (2013.01 - EP US); **H02K 19/28** (2013.01 - EP US)

Cited by

EP3096448A1; EP2595309A1; EP3322085A1; EP2670045A3; EP3893384A1; EP3032716A1; EP3373445A1; US10122306B2; US10027210B2; US8581425B2; US10498274B2; US11043880B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2341608 A1 20110706**; **EP 2341608 B1 20181121**; ES 2700441 T3 20190215; US 2011133703 A1 20110609; US 8358111 B2 20130122

DOCDB simple family (application)

**EP 10252046 A 20101203**; ES 10252046 T 20101203; US 63052209 A 20091203